

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/753,043	12/27/2000	Sujata Kale	UMIC:048US	9653	
75	90 09/10/2002				
Steven L. Highlander			EXAMINER		
Fulbright & Jav 600 Congress A	vorski L.L.P., venue Suite 2400		WITZ, JEAN C		
Austin, TX 78701			ART UNIT	PAPER NUMBER	
			1651	1651	
			DATE MAILED: 09/10/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

<u>. </u>	,	Application No.	Applicant(s)			
Office Action Summary		09/753,043	KALE ET AL.			
		Examiner	Art Unit			
		Jean C. Witz	1651			
Daniade	The MAILING DATE of this communication app	ears on the cover sheet with the	correspondence address			
THE	HORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.13					
afte - If th - If No - Faild - Any earn	r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply O period for reply is specified above, the maximum statutory period vure to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fron cause the application to become ABANDON	ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)[Responsive to communication(s) filed on 17 J					
2a)□		is action is non-final.				
3)□ Disposit	Since this application is in condition for alloward closed in accordance with the practice under a closed in accordance with the practice under a closed in accordance.					
	Claim(s) <u>1-38</u> is/are pending in the application					
·/ -	4a) Of the above claim(s) <u>31-37</u> is/are withdrawn from consideration.					
5)□	Claim(s) is/are allowed.					
	☐ Claim(s) 1-30 and 38 is/are rejected.					
7)						
8)	Claim(s) are subject to restriction and/or	r election requirement.				
	ion Papers	4				
9)[The specification is objected to by the Examiner	г.				
10)	The drawing(s) filed on is/are: a) accept	oted or b) objected to by the Exa	miner.			
	Applicant may not request that any objection to the	e drawing(s) be held in abeyance. S	See 37 CFR 1.85(a).			
11)	The proposed drawing correction filed on	is: a)☐ approved b)☐ disappro	oved by the Examiner.			
_	If approved, corrected drawings are required in rep					
12)	The oath or declaration is objected to by the Exa	aminer.				
Priority (under 35 U.S.C. §§ 119 and 120					
13)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	a)-(d) or (f).			
a)	☐ All b)☐ Some * c)☐ None of:					
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
* (3. Copies of the certified copies of the prior application from the International Bur See the attached detailed Office action for a list of the control o	eau (PCT Rule 17.2(a)).	_			
	Acknowledgment is made of a claim for domestic					
	The translation of the foreign language pro					
	Acknowledgment is made of a claim for domestic					
Attachmen	rt(s)					
2) 🔲 Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>9</u> .	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)			
Patent and T						

Application/Control Number: 09/753,043

Art Unit: 1651

DETAILED ACTION

Election/Restrictions

Claims 31-37 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in Paper No. 11, filed June 17, 2002.

Claim Objections

Claims 1-30 and 38 are objected to because of the following informalities:

There appear to be minor spelling errors in the claims. Careful review and correction is requested.

Claim Rejections - 35 USC § 112

Claims 1-30 and 38 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a method for producing bone ex vivo, comprising the steps of a) obtaining osteogenic or bone precursor cells; b) culturing the cells immediately after passage under serum-free conditions in the presence of bone osteogenic growth factors which are members of the Transforming Growth Factor β gene superfamily and c) maintaining the cell cultures at cell densities that allow the formation of bone cell spheroids, does not reasonably provide enablement for the invention as presently claimed. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims.

Application/Control Number: 09/753,043

Art Unit: 1651

Per the disclosure of Long et al., culture of osteogenic or bone precursor cells were cultured in the presence of TGFβ in serum free medium became adherent and apparently did not produce any bone cell spheroid growth. Clearly, it is the specific culture conditions of culturing the cells immediately after passage under serum-free conditions in the presence of bone osteogenic growth factors that lead to the bone cell spheroid development. With regard to the bone osteogenic growth factors, absent a further showing of predictability, it remains unpredictable that any of the multiple and diverse growth factors that may have a growth promoting effect in an accessory nature will be effective in the practice of the claimed invention. Therefore, the claims should be limited in scope commensurate with the showing of the specification.

Allowable Subject Matter

Claims 1-30 and 38 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, set forth in this Office action.

If claim 38 is found to be allowable, pursuant to the procedures set forth in the Official Gazette notice dated March 26, 1996 (1184 O.G. 86), claims 35-37, directed to the process of making or using the patentable product, previously withdrawn from consideration as a result of a restriction requirement, would be subject to being rejoined. In accordance with the Official Gazette notice, *supra*, process claims 31-34, which require further consideration other than merely the limitations of the allowable product, will NOT been rejoined.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean C. Witz whose telephone number is (703) 308-3073. The examiner can normally be reached on 6:30 a.m. to 4:00 p.m. M-Th and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn can be reached on (703) 308-4743. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9307 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

/Jean C. Witz Primary Examiner Art Unit 1651

September 9, 2002